

Digital Satellite Receiver



PLAZA MODELS

ST 250 / ST 350 / ST 400 ST 450 / ST 500 / ST 550

Instruction Manual (English)

http://www.plaza-st.com

CONTENTS

INTRODUCTION	3
FEATURES	3
FRONT PANEL CONNECTORS	4
CONTROLS AND DEFINITIONS	4
INSTALLATION	5
TUNING YOUR TV TO UHF OUTPUT	5
MAIN MENU	
INSTALL Menu	
CONFIGURING YOUR ANTENNA	
DiSEqC 1.2 menu (Manual positioner)	
DiSEqC USALS menu (Automatic positioner)	
CONFIGURING DC ANTENNA POSITIONER (For models with DC Positioner)	
CHANNEL SEARCH Automatic Scan and Search	
CHANNEL SEARCH: Manual Scan and Search	
Using a mechanical polarizer for your Inb	
ADVANCE SEARCH: Special Feature	
TO CHANGE CHANNEL OR SATELLITE	
SORTING THE CHANNEL LIST	
TO SELECT A CHANNEL FROM ANOTHER SATELLITE	
SELECTING RADIO CHANNELS	
CONDITIONAL ACCESS (for models with CI)	
UPGRADING SOFTWARE	
UPGRADING SOFTWARE VIA PC	
TELETEXT FUNCTION	
TO SELECT SUBTITLES ON A CHANNEL	
TO SELECT AUDIO LANGUAGE	
TO ACTIVATE SLEEP TIMER	
CHANNEL BANNER	
ELECTRONIC PROGRAM GUIDE (EPG)	
INSTALLING FAVORITE CHANNELS	
VIEWING FAVORITE CHANNELS	
TO RESET YOUR RECEIVER TO DEFAULT SETTINGS	
TO LOCK MENU AND CHANNELS	
CHANNEL EDIT	
TO DELETE CHANNELS	
TO RENAME CHANNEL	
TO MOVE CHANNEL	
SATELLITE / TP EDITTO RENAME A SATELLITE	
TO SORT SATELLITE LIST	
DELETING A TP	
TO RENAMING A TP	
TO SORT TP LIST	
RECEIVER TO RECEIVER COPY FUNCTION	
FORMATTING THE HARD DISK FOR FIRST TIME USE	
TO RECORD PROGRAMSTO WATCH A DIFFERENT FTA (free to air) CHANNEL WHILST RECORDING ANOTHER	13
TO RECORD TIMED PROGRAMS	
TO PLAYBACK AND EDIT	
PVR REMOTE KEYS TROUBLE SHOOTING GUIDE	
POWER SUPPLY MAIN	
POWER SUPPLY MAIN POWER SUPPLY POSITIONER (optional)	
MASTER PASSWORD	1 <i>1</i> 17

INTRODUCTION

Welcome to the world of Manhattan digital satellite receiver that will make your life closer to your dream. Before using your new receiver, we suggest that you carefully read this manual and the following safety notice.

The PLAZA model is an advanced digital satellite receiver with the unique option of Blind Search Facility and is designed to cope with the many different operating requirements of broadcast standards worldwide. During development, we have evolved with the best possible solutions to create the next generation of satellite receivers together with the most up-to-date electronics and easy to use on-screen menu system. The new digital satellite receiver is designed to give you outstanding pictures and CD-quality audio with a touch of a button.

FEATURES

All Models

- 1 LNB input, IF signal loop through, supports Universal, Single, C Band and Wide Band LNB
- Multiple LNB switching 0/12V, 14/18 volts, 22KHz and DiSEqC 1.2
- 2 SCART, TV (CVBS / RGB) and VCR/DVD with loop through facility
- S-Video output on mini DIN.
- RS 232 port for PC connections and software upgrade
- 5 RCA sockets (Audio L & R, Video, 0/12V, Digital Audio (S/P DIF)
- PLL RF modulator (CH 21---CH 69 PAL G, I, K, M)
- 100 240V AC 50/60 Hz SMPS PSU.
- 4 Digit LED front panel display
- Supports Multi TV Standards PAL G, I, K, M & NTSC M with screen formats 4:3 and 16:9
- Up to 8000 channels TV or RADIO programmable
- DiSEqC 1.3 with USALS function
- On screen language support for up to 15 languages
- Fully automatic Scan & Store of TV & Radio channels of
- Channel search option by All, FTA, Network, TP with option of including Data channels.
- Advanced (Blind Search) search option by All, FTA, All + Data
- Built in Teletext Supporting Teletext and DVB Subtitle function
- SATCODX compatibility.
- EPG access for current, next and 7 days for on screen channel information
- Parental control facility by channel and menu locks
- 22 different favorite groups (11 TV & 11 Radio)
- Last channel recall facility and Last viewed channel remembered after power down
- Over The Air (OTA) software upgrade facility.
- Time display on Info banner and on front panel.
- Edit functions with picture in menu (Add, Delete, Name, Move and Sort) Channel, TP and Satellite
- Receiver to receiver full user settings and channel data copying facility
- 1 year, 10 event VCR/PVR timer facility
- Multiple audio selection (L, R, Stereo & Mono)
- Programmable sleep timer up to 2 hours
- Supports multiple Audio language broadcasts
- Includes 4 on screen games (Tetris, Minesweeper, Black Jack, and Video Poker)
- DVB Common Interface with dual CAM slots

Models with IR (Irdeto), P (DC Positioner), PVR (Personal Video Recorder ready)

- Embedded IRDETO CI card slot
- 100 240V AC 50/60 Hz SMPS for DC Positioner
- PVR ready (for fitting 40GB to 120 GB Hard Disk Drive)

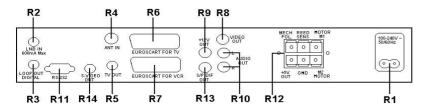
SAFFTY NOTICE

DANGER: HIGH VOLTAGE! RISK OF ELECTRIC SHOCK!

- DO NOT open top cover. High voltages inside. Please refer all servicing to qualified service agents
- DO NOT obstruct the ventilation slots on the top cover. Install the receiver in a well-ventilated location
- DO NOT insert or drop small objects into the receiver
- DO NOT expose the receiver to water, moisture, extreme cold or direct sunlight.
- DO NOT use solvents of any kind to clean the unit, only use a soft-dry cloth.
- DO unplug the receiver from the mains outlet before connecting or disconnecting anything.

- DO unplug the receiver from the mains, TV, and the satellite LNB feed when a thunderstorm is expected.
- DO unplug the receiver from mains out let before cleaning the unit.

BACK PANEL CONNECTIONS



CONNECTORS AND DEFINITIONS

Please do not connect the power to the receiver until all other connections have been made and checked.

R1: AC IN (Power Cord) Connect this lead to the mains outlet (100-240 V AC 50/60 Hz)

R2: LNB IN (IF Input) Connect the IF cable from your LNB to this connector.

R3: LOOP OUT If you have a second satellite receiver, connect the receivers LNB input to this connector.

R4: ANT IN Connect your UHF TV antenna to this connector.

R5: TV OUT (UHF Modulator Output) Connect your TV or VCR to this connector.

R6: EUROSCART FOR TV Connect your TV via a SCART cable to this connector.

R7: EUROSCART FOR VCR Connect your VCR or DVD Player via a SCART cable to this connector.

R8: VIDEO Composite video output for connecting to an AV monitor etc.

R9: 0/12V Switched + 12V DC output for use with LNB switches.

R10: AUDIO LEFT / RIGHT Audio outputs for connecting to a Hi-Fi system.

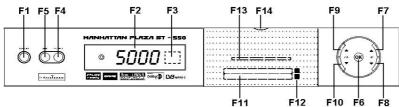
R11: RS-232 Connect your PC to this connector using a NULL MODEM (female to female) cable for software upgrade. Connect STB for channel data transfer from another receiver of same model.

R12: M1, M2, MECH POL, REED SENS, GND, + 5V M1 and M2 connectors for the DC motor, REED SENS and GND connectors for REED switch on your positioner. MECH POL, GND and +5V connectors for a Mechanical Polarizer.

R13: SP / DIF Digital audio output for connecting to a HiFi system

R14: S- VIDEO Additional video output for connecting to a VCR or CAMCORDER with S-VIDEO capability





CONTROLS AND DEFINITIONS

- F1: STANDBY / ON After connecting the power, press this button to switch ON the receiver or to switch to STANDBY
- F2: DIGIT LED DISPLAY This will display the channel number or certain programming functions when using the menus. In standby mode it will display the time.
- F3: REMOTE CONTROL SENSOR Location of the infrared receiver. Do not obstruct this when using the remote control.

F4: TV / RADIO Press this button to change from TV channels to RADIO channels and vise versa.

F5: MENU Press this button to enter the programming menus. To exit the menus, press it again.

F6: OK In viewing mode press this button to display channel list. In menu mode this button is used to enter the programming parameters.

F7: CH UP In viewing mode it will step up channels sequentially. In programming mode it will move the cursor upwards in the menu.

F8: CH DOWN In viewing mode it will step down channels sequentially. In programming mode it will move the cursor downwards in the menu.

F9: VOL UP In viewing mode it will increase the sound. In programming mode it will move the cursor to the right or change a function.

F10: VOL DOWN In viewing mode it will decrease the sound. In programming mode it will move the cursor to the left or change a function.

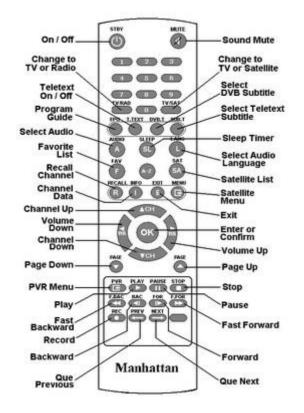
F11: COMMON INTERFACE (CI) SLOTS A AND B Your receiver is equipped with two slots (behind the front flap) accepting Type 1 and Type 2 PCMCIA modules. Open flap from top catch (F14) and Insert CI module together with smart card into either of these slots.

F12: CI SLOTS A AND B EJECT When you want to remove a cam press the eject button.

F13: IRDETO CARD SLOT (For Models with embedded Irdeto) Insert your smart card into this slot.

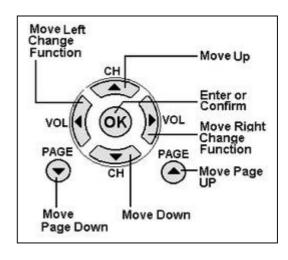
REMOTE CONTROL FUNCTIONS

We recommend that you familiarize yourself with the remote control handset prior to installing the receiver.



OPERATION IN PROGRAMMING MODE

The menus are designed to assist you from the moment you switch on the receiver. Follow the help messages at the bottom of the menu.



INSTALLATION

For digital quality picture, connect the receiver to your TV using a fully wired SCART lead. If using the UHF TV OUT connector then follow below step.

TUNING YOUR TV TO UHF OUTPUT

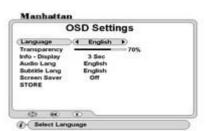
Connect your TV using a UHF (co-axial) lead and switch on the receiver. After initialising the digit LED (F2) will display "NOCH". The receiver has been factory set to channel 64. Select a spare channel on your TV and tune it until you see the following OSD Settings menu. Finally store the settings on your TV.

MAIN MENU

Press the MENU key to configure all your settings.



To select, press CH up / down or VOL up / down key. To enter a menu, press OK key.



Language: Select the required OSD language.

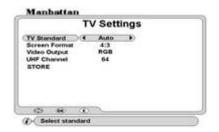
Transparency: Adjust transparency of channel banner and channel list.

Info-Display: Select display time of the channel banner. If you select On it will

remain on until exit key is pressed.

Audio Lang / Subtitle Lang: Select default language. This sets all channels to that language

Screen Saver: Select time to turn ON screen saver in radio mode. After the seconds have lapsed, the screen will change to revolving radio banner. STORE: After above settings move to store and press OK key.



TV Settings

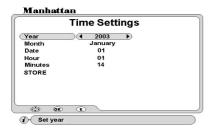
TV Standard: Select the output for your TV. Example: for UK select PAL I. If your TV supports 'Auto Sensing' then select Auto.

Screen Format: Select the picture format for your TV.

Video Output: Select signal output for your TV. If the teletext function on your TV does not work when viewing channels from other sources such as terrestrial TV, select COMP mode.

UHF Channel: Select a UHF channel between 21 - 69.

STORE: After above settings move to store and press OK key.



Time Settings

In standby mode, the front display and channel banner will indicate the time after setting as below.

Year / Month / Date / Hour / Minutes: Press VOL up / down to select. STORE: After above settings move to store and press OK key.



Event Timer

You can program up to 10 events for the receiver to switch on automatically for recording onto VCR or PVR

Event No: Select event number you are setting. Timer: To turn on an event, select VCR SCART or PVR.

TV / Radio: Select TV or Radio mode. Satellite: Select name of the satellite.

Channel: Press OK and select the channel you want to record.

Month / Date: Select month and date the event is to come on.

On Time / Off Time: Using 0-9 keys enter the time.

STORE: After above settings move to store and press OK key



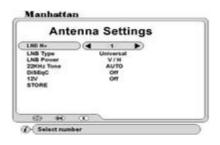
Master Reset

To reset the receiver to factory default settings, select Master Reset and press OK. A PASSWORD window will appear. Using 0-9 keys enter your password and the WARNING message will appear. Press OK to reset or EXIT to abandon resetting.

INSTALL Menu

CONFIGURING YOUR ANTENNA

Your receiver is preset to UNIVERSAL LNB for all LNB numbers (1-50). If you are using one Universal LNB, then you do not need to change any settings. You can re-program these when using more then one LNB.



LNB No: Select reference number.

LNB Type: Select type and press OK to configure LO settings. LO SETTINGS:

- Universal --- Low 9750, High 10600, 22 KHz tone is automatic.
- Single 1 ---- 10750, 22 KHz tone is selectable.
- Single 2 ---- 10700, 22 KHz tone is selectable.
- Single 3 ---- 11300, 22 KHz tone is selectable.
- C Band ----- 5150, 22 KHz tone is selectable.
- Wide ----- Low 9750, High 10750, 22KHz tone is selectable

You can change the LO figure for any of these settings to suit your LNB

LNB POWER

- V / H -----Both polarities are selected. V = Vertical 14V. H = Horizontal 18 V
- 14V Skew On ---- 14V vertical or lower band for Wideband LNB
- 18V Skew On ----- 18V horizontal or higher band for Wideband LNB
- Off ----- No power output.

22KHz Tone: When using other than Universal LNB, you can select tone status.

DiSEqC: When using more than one LNB for fixed installation with a DiSEqC switch. See following example.

EXAMPLE: To configure four LNB

Astra 2 (28.2E), select LNB No 1 and set DiSEqC to 1 Astra 1 (19.2E), select LNB No 2 and set DiSEqC to 2

Hotbird 1-6 (13E), select LNB No 3 and set DiSEqC to 3

Thor 2, 3 (1W), select LNB No 4 and set DiSEqC to 4

EXAMPLE: To configure MONOBLOCK LNB Astra 1(19.2E), select LNB No 1 and set DiSEqC to Mini-A Hotbird 1-6(13E), select LNB No 2 and set DiSEqC to Mini-B

CONFIGURING WIDEBAND LNB

Set LNB No 1 to 14V Skew On (for Low Band Vertical polarity)

Set LNB No 2 to 14V Skew On (for Low Band Horizontal polarity)

Set LNB No 3 to 18V Skew On (for High Band Vertical polarity)

Set LNB No 4 to 18V Skew On (for High Band Horizontal polarity)

For tuning Wideband LNB please refer to channel search section.

12V: To select 12 volts output for relay type LNB switch.

STORE: After above settings move to store and press OK key

DiSEqC 1.2 menu (Manual positioner)

With DiSEqC 1.2 antenna positioner, you can search and download individual satellites with manual positioning.



In Channel Search menu go to Positioner and select DiSEqC 1.2 and press OK key. A sub menu will appear.

Move: Move antenna furthest possible East or West and enter the limits below.

East Limit: After furthest East enter the limit here West Limit: After furthest West enter the limit here

Erase Limits: To clear limits press OK 0 Position: To move to 0 position on motor.

LOCATING PRE-STORED SATELLITES

Re-sync:

First find one of the listed satellites manually by obtaining maximum signal and quality. Then select Re-sync and press OK key. All other listed satellites can now be found automatically during channel search.

STORE: After above settings move to store and press OK key

DiSEqC USALS menu (Automatic positioner)

You can search and download up to 40 satellites at a time automatically using the DiSEqC USALS menu.



In channel search menu go to Positioner and select DiSEqC USALS and press OK key. A sub menu will appear.

Longitude: Enter your location using 0-9 keys and then PAGE up / down keys to enter E (East) or W (West).

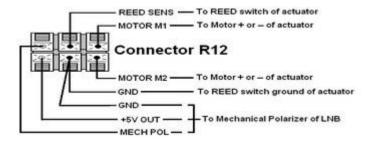
Latitude: Enter your location using 0-9 keys and then PAGE up / down keys to enter N (North) or S (South). EXAMPLE: London – Longitude = 0 and Latitude = 51.5N

USALS: Press OK to move antenna automatically to required satellite.

O Position: To move to 0 (centre) position on motor

STORE: After above settings move to store and press OK key

CONFIGURING DC ANTENNA POSITIONER (For models with DC Positioner) Connecting your Positioner (R12)



DC Manual Positioner



In INSTALL menu, go to Channel Search and move down to Positioner. Now select DC Manual and press OK.

Longitude: Not used in manual mode. If using Auto mode enter using 0-9, page up/down keys

Latitude: Not used in manual mode. If using Auto mode enter using 0-9, page up/down keys

Example: London – Longitude = 0 and Latitude = 51.5N

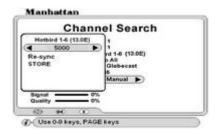
Move: Move antenna furthest possible East or West then enter the limits as

elow.

East Limit: After furthest East move 10 counts back then press OK on East Limit to enter the limit here. **West Limit:** After furthest West move 10 counts back then press OK on West Limit to enter the limit here. **Erase Limits:** To clear limits press OK.

STORE: After above settings move to store and press OK key.

The Channel Search menu will appear again. Select the satellite and move down to DC Manual and press OK. A sub menu will appear to move antenna, find position manually and store the position.



5000: Move antenna East or West a few counts at a time and find the optimum Signal and Quality for the required satellite.

Re-sync: If you need to re-synchronize satellite positions, first find one satellite then move down to 'Re-sync' and press OK.

STORE: After above settings move to store and press OK key.

NOTE: Without storing the position, you will not be able to do channel search.

Please also refer to Channel Search menu for other settings.

DC Auto Positioner

NOTE: To use the DC Auto positioner, both Positioner Setup 1 and 2 must be configured prior to any channel search. Configure Positioner Setup 1 as above and follow below steps for Positioner Setup 2.

In INSTALL menu, go to Channel Search and move down to Positioner. Now select DC Auto and press OK. Positioner Setup 1 will appear. If this is already configured, move down to STORE and press OK. Positioner Setup 2 will appear.



NOTE: For automatic scan and search it is necessary to define the Eastern most, Middle and the Western most satellites in this menu.

LNB No: Select the LNB you have configured.

Satellite: Select satellite name

TP Data: Select TP that has signal for the required satellite

Move: Move antenna and find the maximum Signal and Quality for the satellite **East Sat:** After locating the Eastern most satellite move down to this line and press OK to enter the settings.

Middle Sat: After locating the Middle satellite move down to this line and press OK to enter the settings **West Sat:** After locating the Western most satellite move down to this line and press OK to enter the settings. **STORE:** After above settings move to store and press OK key. The Channel Search menu will appear again.

CHANNEL SEARCH -- Automatic Scan and Search



Using DiSEqC **USALS** or DC Auto menu you can search and download up to 40 satellites automatically at a time. Follow settings below.

Multisat Search: Set index numbers for each satellite you wish to search. **LNB No:** If you are using more than one LNB, select LNB reference as configured previously. If you are using one LNB then this may remain as 1. **Satellite:** Press OK and select satellite name. Remember that you have to select a different name for each index number.

Search Mode: Select search option for each satellite. See below for options. Options with **+ D** will also include data channels

- Auto All All TP, Video and Radio channels.
- Auto All + D -All TP, Video, Radio and Data channels.
- Auto FTA All TP for Free To Air Video and Radio channels.
- NIT All All TP, Video and Radio channels with Network Identification Table.
- NIT All + D All TP, Video, Radio and Data channels with Network Identification Table.
- NIT FTA -- All TP for Free to Air Video and Radio channels with Network Identification Table.

- TP All -- Selected TP for all Video and Radio channels. To select move to TP Data and press OK for sub menu.
- **TP All + D --** Selected TP for all Video, Radio and Data channels.
- **TP FTA --** Selected TP for Free to Air Video and Radio channels.
- Manual All Single TP for all Video and Radio channels. To select go to TP Data and press OK for sub menu.
- Manual All + D Single or user defined TP for all Video, Radio and Data channels.
- Manual FTA Single or user defined TP for Free To Air Video and Radio channels



To select press VOL up / down. To edit or add, follow below settings.

To add select User Defined. **Freq:** Enter using 0-9 keys. **Polarity:** Select polarity **S / R:** Enter using 0-9 keys

FEC: Select FEC

Video PID / Audio PID / PCR PID Enter the channel PID using 0-9 keys **STORE: After above settings move to store and press OK key.**

If you have added a TP, this will appear at the end of the list. Repeat above steps for all the satellites you wish to search

NOTE: SIGNAL AND QUALITY (Channel Search Menu)

In channel search, the signal and quality conditions shown are as below.

• Blue: Indicates noise only with no actual signal

Green: Indicates actual signal

Positioner: Move down to Positioner and select **DiSEqC USALS** or **DC Auto**

Now go to START and press OK key. The antenna will move to the first satellite in the index and **Searching** will start. After completing channel search, it will automatically scan and search the next satellite in the index. This process is repeated until all satellites in the index are searched.



When searching, this page will show the TV and Radio channels found. After completing the index, the positioner will move the antenna to the first satellite.

CHANNEL SEARCH: Manual Scan and Search

Configure Channel Search as described earlier then go to **Positioner** and select **DiSEqC 1.2** or **DC Manual.** Move the antenna until you find the correct position, maximum signal and quality and **store the position START:** Press OK to start search.

USING A MECHANICAL POLARIZER FOR YOUR LNB

Connect the appropriate leads as shown on the output terminals (**R12**) at the back of the receiver. In **INSTALL** menu, go to **Antenna Settings** and configure LNB as described earlier then configure the following.

TUNING WIDEBAND LNB

Select a satellite.

Set Multisat Search 1, LNB No 1 and select vertical TP from low band. Adjust skew to + value for maximum signal and quality.

Set Multisat Search 2, LNB No 2 and select horizontal TP from low band. Adjust skew to - value for maximum signal and quality.

Set Multisat Search 3, LNB No 3 and select vertical TP from high band. Adjust skew to + value for maximum signal and quality.

Set Multisat Search 4, LNB No 4 and select horizontal TP from high band. Adjust skew to - value for maximum signal and quality.

Finally press OK key on Start.

ADVANCE SEARCH: Special Feature

This feature is used when you want to search a satellite for any new channels or those not included in the Database or you do not have the full data of the channel. In INSTALL menu, go to Advance Search NOTE: Searching with this feature is slower than normal search.



LNB No: Select number.

Satellite: Select satellite name.

Search Mode: Select search option. Option + D includes data channels

- ALL All Video and Radio channels.
- FTA Free To Air Video and Radio channels
- ALL + D -All Video, Radio and Data channels.

Scan Freq: Select option. If you select All it will scan the complete frequency related to the LNB type you have selected. To define the frequency, select User Defined. This will allow you to enter the frequency on below menu lines.

Symbol Rate: Select option. If you select ALL it will scan with all Symbol Rates applicable. To define the symbol rate, select User Defined and press OK. A sub menu will appear. Select and press OK on the symbol rate you wish to apply and finally EXIT.

Start Freq: Using 0-9 keys, enter the start frequency here. The search will start from this frequency End Freq: Using 0-9 keys, enter the end frequency here. The search will stop after this frequency Polarity: select polarity.

Positioner: Select positioner if required. Configure this as described earlier. Start: Press OK. TP search will start. Below Searching page will appear.



Shows serial number of TP, Frequency, Symbol Rate (S/R), Polarity and FEC found.

After the search for TP has finished, it will start channel search automatically and display the TV and Radio channels found.

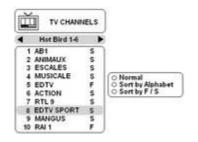
TUNING WIDEBAND LNB (in Advance Search)

Configure LNB as described earlier. Then in normal Channel Search configure skew to obtain signal and quality for each LNB No. Then exit the normal Channel Search menu this will store the skew settings. Now go to Advance Search and perform search for each LNB No that is configured for wideband.

NOTE: It is not possible to do index search in Advance Search and therefore each LNB No has to be tuned individually.

TO CHANGE CHANNEL OR SATELLITE

There are two ways of changing channel or satellite as below.



TO SELECT A CHANNEL WITHIN THE SAME SATELLITE

Press OK key and channel browser will appear on your screen.

- Use CH and PAGE up / down keys to scroll through the list.
- Press OK on required channel

TO SELECT A CHANNEL FROM ANOTHER SATELLITE

- Use VOL up / down to change the list.
- Use CH and PAGE up / down to scroll through the list
- Press OK on required channel. If you are using antenna positioner, it will automatically move to the required satellite. If you are using DiSEqC switch, then it will switch to that antenna.

SORTING THE CHANNEL LIST

Press Green key to sort channels alphabetically.

Press Yellow key to sort channels Free To Air first followed by Scrambled.

Press Red key to return to normal list.

TO SELECT A CHANNEL FROM ANOTHER SATELLITE

Press SAT key and the combined channel and satellite list will appear.

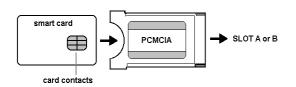


- Use CH and PAGE up / down to scroll through the satellite list
- Press OK on required satellite, the channel list will change and the cursor will also move to its channel list.
- Use CH and PAGE up / down to scroll through the list
- Press OK on required channel. If, you are using antenna positioner, it
 will automatically move to the required satellite. If you are using
 DiSEqC switch, then it will switch to that antenna. Finally press EXIT.

SELECTING RADIO CHANNELS

Press TV / RADIO key once and it will change to Radio mode. Press it again to change back to TV mode. Follow above steps for changing the channel.

CONDITIONAL ACCESS (for models with CI)



VIEWING SCRAMBLED CHANNELS

Open the flap (F14) from top and you will find two CI slots behind it. Insert CAM in either of the slots together with a valid card as shown below. To display CAM and card parameters go to CA Setup.



Common Interface

After inserting card and CAM slots A or B will initialize, showing the CAM type. Select the slot you are using and press OK for sub menu. Follow the menu instructions for checking or changing any parameters.

Irdeto: For models with Embedded Irdeto. Shows Irdeto card and Loader Information. Follow the menu instructions for checking any parameters.

IRDETO CARD SLOT -- For models with embedded Irdeto systems.

Insert your card into slot F13 with the card contacts facing down.

UPGRADING SOFTWARE

You can upgrade the software of your receiver when this is available. Your current software version is displayed in the Data Download menu, Loader Status in OTA Loader menu. There are two ways to upgrade see below.

- Via satellite using the OTA Loader and OTA Upgrade menus. To upgrade your dish must be positioned on Hot Bird 1-6 (13.0E). This satellite provides the OTA Upgrade.
- Via your PC using a NULL MODEM cable connected to RS232 connector R11. The software is available on our website: http://www.plaza-st.com

CHECKING SOFTWARE DOWNLOAD VERSION

Go to INSTALL menu and select Data download. Enter your password and select OTA Loader. Then select Loader Status. The Download Version number is displayed on the second line from top on the right. When calling for technical help line it may be necessary to refer to this version number.

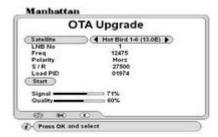
OTA Loader: This menu is used when upgrading the receiver software via satellite. Go to INSTALL menu and select Data Download. Then select OTA Loader and finally select OTA Upgrade. See following menus.



Loader Status: Press OK to display detailed software parameters. OTA Upgrade: Press OK to upgrade software via satellite and follow below menu

NOTE: Upgrading via satellite may take up to 20 minutes.

This menu is pre-configured and ready to upgrade. Select Start and press OK. If you have a motorized antenna, it will automatically move to Hot Bird 1-6 (13.0E).



This may change to a different satellite in future. In this case follow as below

Satellite: Select the satellite providing the OTA Upgrade.

LNB No: Select LNB number.

Freq: Enter the TP frequency using 0-9 keys

Polarity: Select polarity

S / R: Enter symbol rate using 0-9 keys

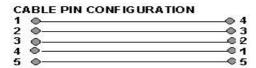
Load PID: Enter the PID for the channel using 0-9 keys.

Start: Press OK to commence download

NOTE: The receiver will check for any available upgrade and start download. If the software in the receiver is the same as in OTA Upgrade, then it will display "Latest Software Installed". It may be necessary to reset your receiver using Master Reset function after upgrading software.

UPGRADING SOFTWARE VIA PC

The software is available on our website http://www.plaza-st.com Follow instructions contained within the zipped file. To connect via your PC the following type cable is required.



TELETEXT FUNCTION

The receiver has a built in Teletext function to call up text pages when transmitted.

- To enter Teletext mode press T. TEXT (Green) key on your remote.
- To call up a page enter using 0-9 keys
- To change page sequentially, use PAGE up / down keys
- To exit from Teletext mode, press T. TEXT key again or press EXIT.

TO SELECT SUBTITLES ON A CHANNEL

Press SUB.T (Blue) key. Select required language and press OK. The subtitles will appear after a few seconds. If not transmitted, it will state **No Subtitles available**.

TO SELECT AUDIO LANGUAGE

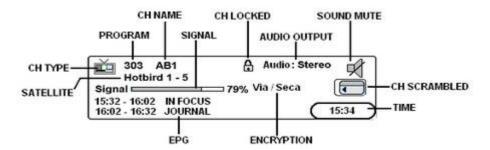
You can select an audio by pressing LANG key. The screen will display options on the top left. Select required language and press OK. To change the output, press the AUDIO key repeatedly.

TO ACTIVATE SLEEP TIMER

Press SLEEP key repeatedly to switch on and select duration of the timer. The time (minutes) will be displayed on the top left. You can program the timer for maximum 2 hours. After the time has lapsed, the receiver will switch to standby.

CHANNEL BANNER

Press INFO key once to display the channel banner. Press INFO key again and channel data will appear above the channel banner.



ELECTRONIC PROGRAM GUIDE (EPG)



To display correct EPG it is important to set the time first.

To display EPG, what's on now and next, press EPG (red) key. Prog No. Select program number or press OK

Highlighted Event: Press OK for details and PAGE up / down for next page. NOTE: If there is no EPG transmitted, it will state 'No Data'. After changing channel please allow few seconds before you press EPG key.

INSTALLING FAVORITE CHANNELS

There are 11 TV and 11 Radio channel lists you can create. You can rename the headings to your requirement. Go to INSTALL menu and select Favorite Channels. Follow below steps.



To change a heading: Press FAV key
To change channel list: Press SAT key

To add channels: Press OK on Add, the cursor will move to channel list. Select channel and press OK. This channel name will appear on the right under the favorite heading. Finally press EXIT.

To rename a heading: Select Rename and press OK. A keypad will appear. Select character and press OK. After naming press EXIT key.

DELETING A FAVORITE CHANNEL

Select Delete and press OK, the cursor will move to channel list on the right. Select channel and press OK. Finally press EXIT.

STORE: After above settings and exiting, move down to STORE and press OK

VIEWING FAVORITE CHANNELS

To select favorite channel, press FAV key. Press VOL up / down key to change list and press OK on required channel. To go back to normal channel list press SAT key and select a channel from its list and exit.

TO RESET YOUR RECEIVER TO DEFAULT SETTINGS

Go to SYSTEM menu and select Master Reset. Enter your PASSWORD, a WARNING message will appear. Press OK to reset.

TO LOCK MENU AND CHANNELS



Go to INSTALL menu and select Parental Lock.

Lock: Press VOL up / down to turn it on.

Old Password: Use 0-9 keys and enter 0000. This is the default password.

New Password: Use 0-9 keys and enter four digits of your choice.

Confirm: Use 0-9 keys and re- enter four digits of your choice.

STORE: Press OK to store the settings.

NOTE: After locking you can only access a locked channel or the menus by entering your password.

CHANNEL EDIT

This section describes the use of the EDIT menu. It includes Channel, Satellite and TP edit functions.



In EDIT menu select 'Channel Edit'. Press VOL up / down to select Lock, Delete, Rename or Move function.

TO LOCK CHANNELS

Select Lock and press OK. The cursor will move to TV channel list. Press VOL up / down if you want to select Radio Channel list. Select channel and press OK. A padlock icon will appear against the channel. Finally press EXIT. Then store the settings.

TO DELETE CHANNELS

Select Delete and press OK. The cursor will move to TV channel list. To delete individual channel, press OK twice on the channel. This will highlight it in red. To delete a group of channels, press OK once on the first channel. Then scroll down wards this will highlight these in mauve. Finally press OK on the last channel in the group and this will highlight these in red. When finished, press EXIT. Then store the settings.

TO RENAME CHANNEL

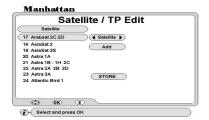
Select Rename and press OK. Select channel and press OK, a keypad will appear. Select character and press OK. After naming press EXIT. Then store the settings.

TO MOVE CHANNEL

Select Move and press OK. To move individual channel, press OK twice on the channel. This will highlight it in mauve. Then select a position in the list and press OK. To move a group of channels, press OK once on the first channel. Then scroll down wards this will highlight these in mauve. Press OK on the last channel in the group. Select a position in the list and press OK. When finished, press EXIT. Then store the settings.

STORE: After all above settings and exiting, move down to STORE and press OK

SATELLITE / TP EDIT



Go to EDIT menu and select Satellite / TP Edit. Select Satellite or TP option. TO ADD A SATELLITE --- Select Satellite option.

Select Add and press OK, a keypad will appear. Select character and press OK. After naming press EXIT. The new satellite will be entered at the bottom of the list. Now enter the Angle of the satellite using 0-9 keys. After this press EXIT. Then store the settings.

TO DELETE A SATELLITE

Select Delete and press OK, the cursor will move to satellite list. Select the satellite you want to delete and press OK. After this press EXIT. Then store the settings.

TO RENAME A SATELLITE

Select Rename and press OK. Select the satellite you want to rename and press OK. A keypad will appear. Select character and press OK. After naming press EXIT. Then store the settings.

TO SORT SATELLITE LIST

After adding a satellite select Sort and press OK. The list will be sorted by satellite positions in degrees. Then store the settings.



TO EDIT A TP --- Select TP option and press OK

The cursor will move to TP list. Select the TP you want to edit and press OK. Cursor will move to Edit TP. Now enter the Frequency, Polarity, S / R and FEC of the TP. After this press EXIT. Then store the settings.

TO ADD A TP

Select Add and press OK, a keypad will appear. Select character and press OK. After naming press EXIT. The new TP will be entered at the bottom of the list. Now enter the Frequency, Polarity, S / R and FEC of the TP. After this press EXIT. Then store the settings.

TO DELETE A TP

Select Delete and press OK, the cursor will move to TP list. Select the TP you want to delete and press OK. After this press EXIT. Then store the settings.

TO RENAMING A TP

Select Rename and press OK. Select the TP you want to rename and press OK. A keypad will appear. Select character and press OK. After naming press EXIT. Then store the settings.

TO SORT TP LIST

Select Sort and press OK. This will sort the TP list in the order of lowest frequency first. STORE: After all above settings and exiting, move down to STORE and press OK

RECEIVER TO RECEIVER COPY FUNCTION

You can copy the channel and user settings onto another receiver of the same model. Follow below steps.

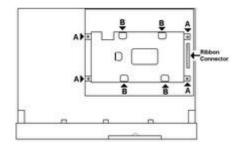
- 1. Connect download cable to 'RS232' connectors (R11) on both the receivers.
- 2. Connect power to the master receiver from which you want to copy the data and switch it on. Go to INSTALL menu and select Data Download. Enter your password and the menu will open. Select STB to STB Download.
- 3. Power on the slave receiver on which you want to copy the data. This receiver will then display the loader menu and the download progress.
- 4. When finished the slave receiver will reboot and come up with a channel.

INSTALLING THE PVR (HARD DISK DRIVE) For models with PVR ready

We recommend Samsung, IBM and Fujitsu type Hard Disks. Other Hard Disks may cause interference with the receivers tuning function.

FITTING THE HARD DISK DRIVE

WARNING! DO NOT FIT THE HARD DISK WHILST THE RECEIVER IS POWERED ON. DISCONNECT FROM MAINS POWER PRIOR TO FITTING. For fitting see diagram below



- Remove the top cover by undoing three screws. Two located, on the left and right sides and one at the top centre at the back.
- Carefully remove the four screws marked A located on the hard disk bracket.
- Remove the bracket and fit the hard disk to the bracket with screws
 B supplied. Ensure that the connectors of the hard disk are nearer the ribbon connector.
- Re fit the hard disk bracket using screws A. Check that the connecting cables are not trapped. Please set jumper of the hard disk to Master.
- Connect the ribbon (Data) and the supply connectors to the hard disk.
- Finally re fit the top cover.

FORMATTING THE HARD DISK FOR FIRST TIME USE

Connect power to the receiver and allow 30 seconds for the Hard Disk to initialize. Then press PVR key and below menu will appear.

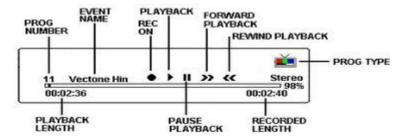


Format Hard Disk: After fitting Hard Disk or to erase previously recorded events, press OK on this menu. A message Formatting will erase all data will come up. To format press OK.

Play / Edit: When you want to playback or edit the events recorded, press OK on this menu and follow steps in PLAYBACK AND EDITTING section below.

TO RECORD PROGRAMS

To start recording, press REC key. The record banner will appear as below. Please note that the picture will appear paused for a few seconds initially although there will be no pause in the actual recording. During recording you are actually watching the playback and therefore a pause is noticed before it begins. The recording will remain on until you press STOP key.



TO WATCH A DIFFERENT FTA (free to air) CHANNEL WHILST RECORDING ANOTHER

You can watch a different Free To Air channel, but within the same TP whilst recording. Press OK key for channel list and select a free to air channel within the same TP. To resume to the channel being recorded, press PLAY key.

NOTE: If you are recording a scrambled channel with the aid of a CAM then it is not possible to view another scrambled channel though from the same TP. This is because the CAM cannot decode two channels at the same time.

TO RECORD TIMED PROGRAMS

Follow steps described in Event Timer. The recording will start automatically at the time when the events come on.

TO PLAYBACK AND EDIT

Press PVR key and select Play / Edit.



Play: Select Play and press OK once, the cursor will highlight a recorded event. Select the event and press OK.

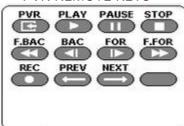
Delete: Select Delete and press OK once, the cursor will highlight a recorded event. Select the event and press OK. After deleting press EXIT. Then store the settings.

Rename: Select Rename and press OK once, the cursor will highlight a recorded event. Select the event and press OK a keypad will appear. Select character and press OK. After naming press EXIT. Then store the settings.

Lock: Select Lock and press OK once, the cursor will highlight a recorded event. Select the event and press OK. The lock icon will appear on the right of the event. After locking press EXIT. Then store the settings. The event can only be played back after entering your password.

STORE: After above settings and exiting, move down to STORE and press OK

PVR REMOTE KEYS



PVR: To enter PVR play, edit and formatting menus.

PLAY: To commence playback PAUSE: To momentarily stop.

F.BAC: To fast play backwards. Press repeatedly to increment the speed. BAC: To slow play backwards. Press repeatedly to increment the speed. FOR: To slow play forwards. Press repeatedly to increment the speed. F.FOR: To fast play forwards. Press repeatedly to increment the speed

REC: To start recording.

PREV: To cue backwards using a marker. Press repeatedly to move the marker. Then press PLAY again. NEXT: To cue forwards using a marker. Press repeatedly to move the marker. Then press PLAY again.

TROUBLE SHOOTING GUIDE

If you suspect there is a problem with your receiver, please check the following trouble shooting guide before calling a Manhattan authorised service agent.

WARNING! Do NOT attempt to repair the receiver yourself. Tampering with the receiver may result in fatal electric shock and will invalidate your warranty.

Symptoms --- Possible cause / solutions

Front display not lit --- Check that the mains lead is plugged into the power socket. Check that your TV is tuned for the correct UHF channel or is switched to correct AV input.

No picture or sound or any menus --- No signal. Channel is scrambled. The antenna is not in correct position. Check LNB wire is not damaged or shorting. Check LNB may be faulty. Unplug receiver from power socket and retry.

Interference, on picture, using UHF output --- Local terrestrial TV interference. Change the UHF output channel to different one then re-tune your TV. Select the appropriate 'TV Standard' using TV Settings menu.

Bad picture with blocking or frozen --- Signal weak or noisy. Check signal quality. Antenna not in correct position

Not responding to remote control --- Check the batteries in your remote control. Replace with new. You have lost or forgotten your password --- Apply master password or contact your Manhattan dealer.

SPECIFICATIONS

TUNER

Input Connector Frequency Range Input Impedance Signal Level

LNB Power & Polarization

LNB Control

22 KHz Tone Amplitude Input Symbol Rate FEC Decoder F-type IEC 169-24 Female 950MHz to 2150MHz

75 Ohm

-25 to - 65 dBm

Vertical +14V, Horizontal +18V (600mA Max. with Overload Protection)

 $22KHz \pm 4 KHz$, Tone burst A/B and DiSEqC 1.2

0.6Vpp (±0.2V) 1~45 Msps

Auto, 1/2, 2/3, 3/4, 5/6, 7/8

SYSTEM

Transmission Standard DVB MPEG-2
Input Data Rate Max 15Mb/s
Aspect Ratio 4:3, 16:9

Video Resolution 720 x 480 NTSC, 720 x 576 PAL

Audio Decoding MPEG Layer 1 and 2

Audio Mode Single channel / Dual Channel/Joint Stereo / Mono

Sampling Rate 32KHz, 44.1KHz, 48KHz, 96KHz,

COMMON INTERFACE

Slots 2 slots type 1 and type 2

PCMCIA DVB Common Interface Standard

IRDETO EMBEDDED CI (optional)

Card Slot 1 Slot

PVR READY (optional) To fit 40 - 120 GB Hard Disk Drive

CONNECTORS

RGB, CVBS 2 SCART sockets (TV/VCR), 1 PHONO RCA

Audio Output 2 SCART sockets (TV/VCR), 2 x PHONO (L, R) / RCA

Digital Audio Output 1 PHONO RCA (S/P DIF)

Data Interface 1 RS232 (Bit Rate: 115,200 baud Connector: 9-pin D-sub type)

RF connectors 75 Ohm IEC 169-2 Male/Female

RF MODULATOR

Frequency 470MHz to 860 MHz Channel Range UHF CH21 to 69

TV standard PAL BG/ I /K PAL M, NTSC M

POSITIONER (optional)

DC Motor Drive Output 36V DC --- , 5A max
Sensor Reed or Hall Effect switch

Connections Push Terminals

POWER SUPPLY MAIN

Input Voltage 100 -- 240 V AC, 50/60Hz ~

Type SMPS
Power Consumption Max 30W

Protection Separate Internal Fuse

POWER SUPPLY POSITIONER (optional)

Input Voltage 100 -- 240 V AC, 50/60Hz ~

Type SMPS

Protection Separate Internal Fuse

PHYSICAL DIMENSIONS

Size (W X H X D) 380 X 68 X 296 mm

Eurosat® and Manhattan® are registered trademarks of Eurosat Distribution Ltd. Eurosat reserves the right to alter product specifications without prior notice.

MASTER PASSWORD

This is the master password for your receiver. Cut this section out and keep it in a safe place. It will be useful later if you forget or lose your password: 6699